

Abstract of the Disclosure

There is provided to an apparatus and method for selecting a beam having an optimal channel characteristic among multiple beams, which are formed at a digital TV receiver employing a switched beamforming part. The beam selecting apparatus of the digital TV receiver having a switched beamformer and a channel equalize includes: a correlating unit for calculating cross-correlation values with respect to previous known Field Sync signals and Field Sync signals of beams having energy larger than a predefined value among beams outputted from the switched beamformer; a channel profile extracting unit for extracting multi-path channel profiles of the beams by using the cross-correlation values; an effective signal path searching unit for obtaining the number of effective signal paths having values larger than a predefined threshold based on the channel profiles; and a beam selecting unit for selecting beams of a channel profile having the smallest number of the effective signal paths among the beams outputted from the switched beamforming means as an input beam of the channel equalizer.